

Silex 303

FEATURES

- It does not expand, even in presence of water
- Excellent adhesion on metals, concrete and stone, even wet.
- Chemical stability to water, acids, bases, fuels.
- Fire resistance

COMPOSITION

- Part A: silicate Silex 303A
- Part B: isocyanate Silex 303B



Two-component compact organo-mineral system, composed of a modified siliceous aqueous solution (component A) and a modified polyisocyanate (component B). The reaction of the components generates a material characterized by high adhesion to stone, concrete and metal. Excellent chemical, compressive and fire resistance. When the two components are mixed in the presence of the ACC-3 accelerator, the thixotropy and speed of the system immediately increase. The presence of water does not affect the reaction.

APPLICATIONS

- Designed for the protective coating and restoration of tanks, aqueducts, cement products, containment tanks.

TYPICAL PROPERTIES

Specifications writers: These values are not intended for use in preparing specifications. Please contact your local sales representative prior to writing specifications on this product.

| Property | Unit | Value |
|---|-------------------|--------------------------|
| Color (Part A / Part B) | visual | Colorless opaque / Brown |
| Density at 23°C (Part A / Part B) | g/cm ³ | 1.478 / 1.130 |
| Viscosity at 23°C (Part A / Part B) | mPa.s | 270 / 210 |
| Mixing ratio | pbw | 100 : 150 |
| Mixing ratio | pbv | 100 : 200 |
| Mixture Silex 303A : Silex 303B = 100 : 150 pbw | | |
| Mixing time @ 2800 rpm | seconds | 30 |
| Pot life [100g @ 23°C] | minutes | 4 - 5 |
| Gel time [100g @ 23°C] | minutes | 14 - 15 |
| Minimum curing @ 23°C | days | 4 |
| Full curing @ 23°C | days | 7 |
| Mixture Silex 303A : ACC-3 : Silex 303B = 100 : 1 : 150 pbw | | |
| Mixing time @ 2800 rpm | seconds | 30 |
| Pot life [100g @ 23°C] | minutes | 1 - 2 |
| Gel time [100g @ 23°C] | minutes | 5 - 6 |
| Minimum curing @ 23°C | days | 1 |
| Full curing @ 23°C | days | 2 |
| Hardness | Shore D | 70 |
| Flexural strength | MPa | 37 |
| Flexural modulus | MPa | 1860 |
| Tensile strength | MPa | 15 |
| Elongation at break | % | 3.8 |
| Flexural modulus | MPa | 630 |
| Compressive strength | MPa | 60 |
| Fire properties | | self-extinguishing |

USE

Manual application by brush or roller, within the workability time. Automatic spray application: preferably use double-acting machines (bi-mixer), equipped with a gun with internal mixing and a static mixing nozzle at the tip. Mix part A thoroughly before use and provide adequate stirring during prolonged use.

REACTIVITY

In case of use at low temperatures or to speed up the final hardening of the compound, use the ACC 303 accelerator (1% to be added to component A before mixing with component B).

TOOLS AND MACHINES CLEANING

- ☐ A component: clean water, possibly warm
- ☐ B component: pure acetone or high boiling point solvents (eg Solvesso 100)
- ☐ Mixture: within 4 minutes max from the contact of the components, use a solution of water and caustic soda at 30%. Once the mixture has hardened, it can only be removed with a decisive and robust mechanical action.

HANDLING PRECAUTIONS

The information for a correct and safe handling of the products are contained in the safety data sheet. Consult the safety data sheets before use for complete information on the risks for health and environment and for suitable protective devices to be adopted. Share the safety data sheets with all the staff involved in the use of the products.

PACKAGING

Silex 303A is supplied in 24 kg containers, Silex 303B in 18 kg containers, ACC-3 in 1 kg containers.

USABLE LIFE - STORAGE

Store both components A and B in the original sealed packaging in a cool and dry place at a temperature between +10°C and +35°C. Part A: protect from frost. Part B: Protect from moisture. In winter, transport with insulated containers is recommended. If transported at a low temperature, the product must be conditioned at least 12 hours at room temperature before use. Keep original containers tightly closed. This material has a shelf life of 6 months from the date of manufacture.

LIMITATIONS

This product is neither tested nor represented as suitable for food contact, skin contact or medical uses.

LIMITED WARRANTY

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